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NOTICE OF ALLOWANCE AND FEE(S) DUE

23400

7590

03/21/2008

POSZ LAW GROUP, PLC 12040 SOUTH LAKES DRIVE SUITE 101 RESTON, VA 20191

EXAMINER					
TO, TOAN C					
ART UNIT PAPER NUMBER					

3616

DATE MAILED: 03/21/2008

APPLICATION NO.	APPLICATION NO. FILING DATE FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/780,725	02/19/2004	Yoji Higashiyama	11-225	3288

TITLE OF INVENTION: NOISE-RESISTANT CIRCUIT AND APPARATUS USING SAME

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	06/23/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where m

opropriate. All further idicated unless correcte naintenance fee notifica	ed below or directed oth	ng the Patent, advance on herwise in Block 1, by (a	rders and notification a) specifying a new co	of m orresp	aintenance fees woondence address;	ill be i and/or	mailed to the current of (b) indicating a separ	correspondence address as rate "FEE ADDRESS" for
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POSZ LAW G 12040 SOUTH I SUITE 101	LAKES DRIVE			I here State addre trans	eby certify that this Postal Service we essed to the Mail mitted to the USPI	s Fee(s ith suf Stop FO (57	s) Transmittal is being ficient postage for first ISSUE FEE address a 1) 273-2885, on the da	deposited with the United class mail in an envelope above, or being facsimile te indicated below.
RESTON, VA 2	0191							(Depositor's name)
								(Signature)
								(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	ГOR		ATTO:	RNEY DOCKET NO.	CONFIRMATION NO.
10/780,725	02/19/2004		Yoji Higashiyama	ı			11-225	3288
		CIRCUIT AND APPARA						
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300		\$0		\$1740	06/23/2008
EXAM	INER	ART UNIT	CLASS-SUBCLASS					
TO, TO	DAN C	3616	280-735000					
Change of correspondence address or indication of "Fee Address" (37 FR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(1) the names of u or agents OR, alteri (2) the name of a s registered attorney 2 registered patent	ting on the patent front page, list mes of up to 3 registered patent attorneys DR, alternatively, me of a single firm (having as a member a attorney or agent) and the names of up to d patent attorneys or agents. If no name is name will be printed.				
PLEASE NOTE: Unl recordation as set forti (A) NAME OF ASSIG	ess an assignee is ident h in 37 CFR 3.11. Comp GNEE		data will appear on th T a substitute for filing (B) RESIDENCE: (C	ne pa g an a	tent. If an assigne ssignment. and STATE OR C	OUNT	RY)	cument has been filed for
a. The following fee(s) a Issue Fee	are submitted:	4t	 Payment of Fee(s): (1 A check is enclosed 		se first reapply an	y prev	iously paid issue fee s	hown above)
Publication Fee (No small entity discount permitted)			Payment by credit	t card	l. Form PTO-2038	is atta	ched.	
Advance Order - #	# of Copies		The Director is her overpayment, to D	reby Depos	authorized to charg it Account Numbe	ge the 1 r	required fee(s), any def (enclose an	iciency, or credit any extra copy of this form).
	tus (from status indicated s SMALL ENTITY statu		☐ b. Applicant is no	long	er claiming SMAL	L ENT	ΓΙΤΥ status. See 37 CF	R 1.27(g)(2).
OTE: The Issue Fee and terest as shown by the i	d Publication Fee (if requeecords of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other the Office.	an th	e applicant; a regis	stered a	attorney or agent; or the	e assignee or other party in
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application. Confident bmitting the completed is form and/or suggesti	tiality is governed by 35 application form to the ons for reducing this but irginia 22313-1450. DC	U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to th	1.14. This collection is depending upon the in e Chief Information Of	s esti ndivi fficer	mated to take 12 n dual case. Any co . U.S. Patent and '	ninutes mment Traden	to complete, including s on the amount of time park Office, U.S. Depa	by the USPTO to process) g gathering, preparing, and the you require to complete rtment of Commerce, P.O. or Patents, P.O. Box 1450,

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23400 7	23400 7590 03/21/2008		EXAMINER		
POSZ LAW GROUP, PLC		TO, TOAN C			
12040 SOUTH LA	AKES DRIVE		ART UNIT	PAPER NUMBER	
SUITE 101 RESTON, VA 20191			3616 DATE MAILED: 03/21/200	8	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 398 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 398 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

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	Application No.	Applicant(s)	
Netice of Allered Hills	10/780,725	HIGASHIYAMA, YOJI	
Notice of Allowability	Examiner	Art Unit	
	Toan C. To	3616	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in some of the committee of the com	n this application. If not included unication will be mailed in due course	
 This communication is responsive to <u>Amendment filed on</u> 	February 15, 2008.		
2. ☑ The allowed claim(s) is/are <u>5,6,10,11 and 14</u> .			
 3. Acknowledgment is made of a claim for foreign priority of a) All b) □ Some* c) □ None of the: 1. □ Certified copies of the priority documents have 2. □ Certified copies of the priority documents have 3. □ Copies of the certified copies of the priority documents 	ve been received. ve been received in Application	on No	om the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON! THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	MENT of this application.		
 A SUBSTITUTE OATH OR DECLARATION must be subr INFORMAL PATENT APPLICATION (PTO-152) which give 			E OF
5. 🔲 CORRECTED DRAWINGS (as "replacement sheets") mι	ust be submitted.		
(a) ☐ including changes required by the Notice of Draftsper	rson's Patent Drawing Review	v (PTO-948) attached	
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner Paper No./Mail Date	r's Amendment / Comment o	r in the Office action of	
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in			of
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT 			ne
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 Notice of In	formal Patent Application	
 Notice of References Cited (FTO-692) Dotice of Draftperson's Patent Drawing Review (PTO-948) 	6. ☐ Interview S	ummary (PTO-413),	
3. ☐ Information Disclosure Statements (PTO/SB/08),	Paper No. 7.	/Mail Date Amendment/Comment	
Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit		Statement of Reasons for Allowance	e
of Biological Material	9.		•
	/Toan C To/ Patent Examiner, / March 13, 2008	Art Unit 3616	

Application/Control Number: 10/780,725 Page 2

Art Unit: 3616

DETAILED ACTION

Allowable Subject Matter

1. Claims 5-6, 10-11 and 14 are allowed.

2. The following is an examiner's statement of reasons for allowance:

With respect to independent claim 5, the prior art either alone or in combination fails to disclose, teach or suggest a noise-resistant circuit for squibbing a squib; said circuit comprising: a plurality of independent channels connecting the controller and a plurality of drivers to transmit the command from the controller to the plurality of drivers, the plurality of independent channels comprising a first channel and a second channel, the first channel being connected to a higher voltage power line of the squib and the second channel being connected to a lower voltage power line of the squib; and a plurality of switching elements, mutually connected in series. These structures in combination with other structures as recited in claim 5 define over prior art of record.

With respect to independent claim 10, the prior art either alone or in combination fails to disclose, teach or suggest an airbag apparatus comprising: a plurality of independent channels connecting the controller and a plurality of drivers to transmit the command from the controller to the plurality of drivers, the plurality of independent channels comprising a first channel and a second channel, the first channel being connected to a higher voltage power line of the squib and the second channel being connected to a lower voltage power line of the squib; and a plurality of switching elements, mutually connected in series. These structures in combination with other structures as recited in claim 10 define over prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Toan C. To whose telephone number is (571) 272-6677. The examiner can normally be reached on Mon-Fri (8:00-5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Dickson can be reached on (571) 272-6669. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Toan C To/ Patent Examiner, Art Unit 3616 March 13, 2008